FUNCTION:

Writes files from video cassette tape to disk. Allows you to restore file-oriented disk backup from video cassette to disk.

HINTS/RESTRICTIONS:

Used in combination with VCRSAV (to write disk files to the video cassette tape) and VCRDIR (to display a list of files contained on a video cassette). Only reads tapes that were created using the VCRSAV command. Not for transferring data between Alpha Micro and non-Alpha Micro computers.

When you enter VCRRES, you will be reminded that VCRRES will lock out the other users on your system. You should check with other users on your system before proceeding with VCRRES. If another user should be reading from or writing to the disk when you enter VCRRES, you both could be locked up.

You may not copy to a disk account if it is not in the project you are copying from unless you are logged into the system operator's account, [1,2]. If you are logged into [1,2], the default output account specification is [], and if the account you are copying to does not exist, VCRRES creates it. You may copy files into the account you are logged into from any other account, regardless of project number.

VCRRES is a wildcard command. (See the AMOS User's Guide, DWM-00100-35, for information on using wildcard commands.)

The input specification must give the exact specification of the files you want to transfer from the video cassette, including device and account specifications of the files as they were written to the tape. The output specification allows you to specify the device and account the files are to be written to on the disk, and to rename the files as they are written out to the disk.

NOTE: If the cassette you are restoring files from contains a warm boot monitor as well as data files, VCRRES skips over the warm boot monitor, ignoring it, and goes on with the normal file restore process.

FORMAT:

.VCRRES{/switch}{outspec}={inspec1{/switch}{,inspec2{/switch}...}} RET

where /switch specifies a VCRRES option, outspec specifies the files to be created on the disk, and inspec specifies the files to be transferred from the video cassette (including the disk device and account specifications originally associated with the files when they were backed up onto the cassette by VCRSAV.)

(Changed 17 May 1982)*

DEFAULTS:

You may give an input specification for the files that you wish to restore, or you may let the input specification default to the device and account that you are logged into by entering VCRRES {Outfilespec}=*.* and a RETURN.

The output specification defaults to the input specification in the case of the filename and extension. This means that, unless you tell it differently, VCRRES will restore the files to the account that you are logged into. Therefore, if you want to restore to different accounts, you must specify the accounts to be written to, or use ALL[].

If you do not specify a device (such as DSK0:), the default will be the disk that you are currently logged into. This means that if you are logged into DSK0:, everything on the tape will be written onto DSK0:, even if they were written to the tape from other disks.

Therefore, be careful to specify an output specification if the files on the tape came from more than one disk. Unless, of course, you want to transfer them all onto one disk.

If you are logged into the System Operator's account, [1,2], the default output specification is [].

The default switches are /NOQUERY, /DELETE, and /NOHASH.

OPTIONS:

Use the switches below to select VCRRES options. Each switch must begin with a slash. Remember that the placement of the switch in the command line modifies its effect.

/QUERY	or /Q	Ask user for confirmation before selecting files (file switch).
/NOQUERY	or /NOQ	Don't ask for confirmation before selecting files (default, file switch).
/DELETE	or /D	Copy over to an existing file, thus deleting it (default, file switch).
/NODELETE	or /NOD	Don't copy over to an existing file (file switch).
/HASH	or /H	Restore only files that have different hash totals on the disk (file switch). (The VCRSAV /HASH switch must have been used when you originally saved these files on the cassette.)
/NOHASH	or /NOH	Don't check hash totals (default, file switch).

(Changed 17 May 1982)*

OPERATION:

1. Type VCRRES followed by the optional output specifications. Then type an equal sign followed by any input specifications. Type a RETURN. The output specification assigns the specifications of the new files you are creating; the input specification selects the files to be copied. For example, to copy from a cassette all .PRG files that were originally backed up from account [110,2] on DSK2: over to your current account, enter:

   .VCRRES =DSK2:*.PRG[110,2] (RET)

   You may specify wildcard file specifications to VCRRES (as in the input specification *.PRG above):

   .VCRRES *.OLD[]=DSK3:*.MAC[10,*]/QUERY (RET)

2. Now VCRRES gives you step-by-step directions for the restore process:

   Place cassette at load point.
   Press RETURN on CRT when ready.

   Press PLAY on VCR.
   Press RETURN on CRT when ready.

   Reading Table of Contents from VCR

   Place cassette at load point.
   Press RETURN on CRT when ready.

3. Now VCRRES displays a list of the files on the cassette that fit the specifications you entered earlier. If you used the /QUERY switch, VCRRES waits after the appropriate statement for you to respond Y for yes or N for no. You don't have to hit RETURN. For example:

   VCR0:DSK3:NEW.MAC[10,3] to DSK2:NEW.OLD[10,3] ? Y
   VCR0:DSK3:B32.MAC[10,4] to DSK2:B32.OLD[10,4] ? Y
   VCR0:DSK3:SCRTCH.MAC[10,6] to DSK2:SCRTCH.OLD[10,6] ? N
   Total of 2 files in 78 blocks selected for transfer.

4. After this is done, VCRRES is ready to begin the actual restore process:

   Press PLAY on VCR.
   Press RETURN on CRT when ready.

   Bypassing Table of Contents
   Beginning copy .....

(Changed 17 May 1982)*

IMPORTANT NOTE: You may enter a Control-C at any time to stop the file transfer. But remember, some of your current files will have been erased from the disk.

```
Place cassette at load point.
Press RETURN on CRT when ready.

Restoring DSK3:NEW.MAC
Restoring DSK3:B32.MAC
Restoring DSK3:SCRTCH.MAC

Restore completed
Erasing 'VCRTOC.IPF'
```

It is finished. Now you may rewind and remove the cassette, and return it to its storage location.

ERRORS:

?Cannot find DSKO:SCNWLD.SYS[1,4] or MEM:SCNWLD.SYS

VCRRES needs this file to be able to process wildcard symbols in your file specifications. This message can mean that SCNWLD.SYS does not exist or that you do not have enough memory to load the file into your partition.

?Cannot OPEN Devn: - protection violation

You tried to copy into an account you are not logged into that is not in the same project as the account you are copying from, and you are not logged into [1,2]. Either log into [1,2] or the account you want to write into, and try again.

?Cannot READ Devn: - device does not exist
?Cannot READ Devn: - device is not mounted

You tried to copy to or from a device that is not listed in the DEVTBL command in your system initialization command file, does not have a driver in account [1,6] of the Sytem Disk, is not file-structured, or is not mounted. ("Devn:" is the device you specified.)

?Tape is not file-structured

The tape you are trying to read was not written by VCRSAV. VCRRES can only read tapes written by VCRSAV. Check to make sure you have mounted the correct tape cassette.

?Missing output specification

You omitted the equal sign in the VCRRES command line; VCRRES couldn't tell which information was your input specification and which was your output specification.

?More than one output specification

You may not supply more than one output specification.

(Changed 17 May 1982)*

?Files may not be transferred to RES:
You may only add programs to system memory by using the SYSTEM command within your system initialization command file.

%Not selected - Destination file already exists
You tried to copy to an existing file while the /NODELETE option was in effect.

%Not selected - Destination file has same HASH as source file
You used the /HASH switch and it found matching hash totals on the cassette and the disk. The files are evidently identical so no transfer is necessary.

%Not selected - Source file does not have a calculated HASH total
You specified the /HASH switch but the cassette does not contain a HASH total to compare. You didn't use the /HASH switch when you used the VCRSAV program.

?You are not logged in under [1,2], can't create [p,pn]
You cannot copy from an account to a nonexistent account unless you are logged into the System Operator's account, [1,2]. If you copy to a nonexistent account while logged into [1,2], VCRRES will create the account for you.

?Output MFD is full
The Master File Directory only has room for 63 entries. The transfer in progress would have created a new account, but there is not enough room in the MFD.

?Device full
No more room on the disk.

%Bypassing BADBLK.SYS[1,2]
% BADBLK.SYS exists to prevent bad blocks
% on a device from being allocated, and
% should never be directly accessed.
You cannot copy the BADBLK.SYS[1,2] file, since this would lead to the corruption of the file system.

%Bypassing VCRTOC.IPF
% VCRTOC.IPF is the name of the
% Table-of-contents file from tape, and
% cannot be directly accessed.
You cannot copy a file to the disk with the resulting file name of VCRTOC.IPF because it would write over the temporary file VCRRES is using to locate files on the tape.

CHARACTERISTICS:

A file-oriented program that transfers files from a video cassette tape to the disk. You must specify the account and device that the files were originally backed up from. Allows you to rename the files being copied.

Not for transferring data between Alpha Micro and non-Alpha Micro computers.

Accepts wildcard specifications. Output file specification defaults to input file specification for the filename and PPN. The input specification defaults to *.* and account and device you are logged into. Default switches are /NOQUERY, /DELETE, and /NOHASH. Default video cassette tape unit device code is VCR0.

Both the VCRSAV and the VCRRES programs create a temporary directory file named VCRTOC.IPF in the disk and account you are currently logged into. This file is erased and recreated each time VCRSAV or VCRRES is used within the account. If you specify VCRTOC.IPF in an VCRSAV or VCRRES command line, VCRSAV and VCRRES will automatically bypass it.

FUNCTION:

Writes copies of disk files to video tape cassettes. A file-oriented disk backup program.

HINTS/RESTRICTIONS:

Used for file oriented disk backup. Writes files to video tape cassettes along with their disk device and account specifications. Also writes date and time of backup. Used in combination with VCRRES (to transfer files from video tape cassettes back to disk) and VCRDIR (to list a directory of files on a cassette). For additional information on other commands and facilities, refer to the command reference sheets for VCRDIR, VCRRES, CRT610, and WRMGEN.

When you enter VCRSAV, you will be reminded that VCRSAV will lock out the other users on your system. You should check with other users on your system before proceeding with VCRSAV. If another user should be reading from or writing to the disk when you enter VCRSAV, you both could be locked up.

VCRSAV is a wildcard file command. (See the AMOS User's Guide, DWM-00100-35, for information on wildcard specifications.)

You may back up files from any disk account onto tape whether or not the account is within the project you are logged into. Although VCRSAV writes the disk specification of the file to the tape cassette along with the file, it does not transfer any password that may be associated with that disk account.

VCRSAV is for file backup only; not for transfer of data between Alpha Micro and non-Alpha Micro computer systems.

Because VCRSAV writes the date and time of backup to the tape, you should remember to use the DATE and TIME programs to set the system date and time before you use VCRSAV.

FORMAT:

```
.VCRSAV {Filespec1{/switch}} RET
```

where Filespec specifies the files you want to back up onto the video cassette, and /switch is an option request.

DEFAULTS:

The default file specification is *.* and the account and device you are logged into. The default switches are /NOQUERY, /NOHASH, and /COPIES:0.

(Changed 17 May 1982)*

OPTIONS:

The options available with the VCRSAV command are the Query/NoQuery switches, the Hash/NoHash switches, the Copies switch, and the Boot switch. The placement of the switches within the command line modifies their effect. Remember to put a slash before the switch whenever you use it. The defaults are /NOQUERY, /NOHASH, and /COPIES:0.

/QUERY	or /Q	Ask user for confirmation before selecting files (file switch).
/NOQUERY	or /NOQ	Don't ask for confirmation before selecting files (default, file switch).
/HASH	or /H	Calculate a hash total (file switch).
/NOHASH	or /NOH	Don't calculate a hash total (default, file switch).
/COPIES:n	or /C:n	Specifies the number of extra copies of each block of data to be copied onto a cassette. (default is /C:0, operation switch).
/BOOT	or /B	Generate a warm boot cassette (operation switch).

NOTE: You can use the /HASH switch to calculate hash totals for certain files to identify a particular version of the file. This will save time when you use VCRRES to restore files to the disk, because you can then specify the /HASH switch to transfer only the files that have different hash totals.

You can use the /BOOT switch to transfer a warm boot monitor to a cassette along with the other files. See the CRT610 reference sheet for more information on warm boot tapes.

OPERATION:

1. Type VCRSAV followed by the specification selecting the files you want to back up onto the video cassette; then type a RETURN. For example:

   .VCRSAV MEMO.TXT,SCHDLE.TXT[310,2] (RET)

   NOTE: You can save space on a cassette by selecting all the sequential files or all the random files you want to save at once.

2. If you are creating a warm boot monitor on the tape, VCRSAV begins asking for information it will place in the cassette label: Volume name (maximum of 40 characters); Volume ID (maximum of ten characters); Installation (maximum of 30 characters); System (maximum of 30 characters); and Creator (maximum of 30 characters).

3. VCRSAV then tells you what files it is selecting for transfer:

```
DSK2:MEMO.TXT to VCR0:DSK2:MEMO.TXT
SCHDLE.TXT[310,2] to VCR0:SCHDLE.TXT[310,2]
Total of 2 files in 126 blocks selected for transfer
```

4. Now VCRSAV gives you step-by-step instructions for the save process:

```
Place cassette at load point.
Press RETURN on CRT when ready.

Press RECORD on VCR.
Press RETURN on CRT when ready.

Beginning copy ..
```

5. When VCRSAV is finished, you see:

```
The transfer is now complete.
Press STOP on the VCR.
Total of 6 files in 126 blocks transferred
```

6. Press STOP and rewind the cassette. You should then use the CRT610 command with the /CHECK option to check the cassette. Note that you may use a Control-C to halt the transfers at any point.

   See the CRT610 reference sheet for information on the CRT610 command.

ERRORS:

?Cannot find DSK0:SCNWLD.SYS[1,4] or MEM:SCNWLD.SYS

VCRSAV needs this file to be able to process wildcard symbols in your file specifications. This message can mean that SCHWLD.SYS does not exist or that you do not have enough memory to load the file into your partition.

?Cannot READ Devn: - device does not exist
?Cannot READ Devn: - device is not mounted

You tried to copy to or from a device that is not listed in the DEVTBL command in your system initialization command file, does not have a driver in account [1,6] of the System Disk, or is not mounted. ("Devn:" is the device you specified.)

%Field size exceeded. Re-enter.

While you were entering the label information, you tried to put more data into a field than it could hold. Check the maximum length of the field, and try again.

(Changed 17 May 1982)*

CHARACTERISTICS:

VCRSAV is a file-oriented disk backup that allows you to copy disk files to video tape cassettes. Not for transferring data between Alpha Micro and non-Alpha Micro computer systems.

Accepts wildcard file specifications. Default specification is *.* and the device and account you are logged into. The default switches are /NOQUERY, /NOHASH, and /COPIES:0.

Both the VCRSAV and the VCRRES programs create a temporary directory file named VCRTOC.IPF in the disk and account you are currently logged into. This file is erased and recreated each time VCRSAV or VCRRES is used within the account. If you specify VCRTOC.IPF in an VCRSAV or VCRRES command line, VCRSAV and VCRRES will automatically bypass it.

(Changed 17 May 1982)*